

1614

DOCKET NO.: CELL-0289/P0164-USW01

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Stephen Martin Courtney, et al.

Confirmation No.: 8405

Application No.: 10/523,118

Group Art Unit: 1614

Filing Date: October 4, 2005

Examiner: Not Yet Assigned

For: FURANTHIAZOLE DERIVATIVES AS HEPARANASE INHIBITORS

DATE OF DEPOSIT: May 19, 2006

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

Jane E. Ingles

TYPED NAME: Jane E. Ingles
REGISTRATION NO.: 48,444

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

- ☒ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

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the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

- ☐ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.116 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

- ☐ Certification in Accordance with § 1.97(e) is attached; or
- ☐ The fee of \$180.00 as set forth in § 1.17(p) is attached.

- ☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of \$180.00 as set forth in § 1.17(p).

- ☒ Copies of reference numbers **1 - 16** listed on the attached Form PTO-1449 are enclosed herewith.

- ☐ Copies of reference numbers - on the attached Form PTO 1449 are not required to be submitted pursuant to 37 CFR § 1.98(a)(2)(i).

- ☐ Copies of references - are not being submitted because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application number , filed for which a claim for priority under 35 U.S.C. § 120 has been made in the instant application.

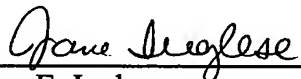
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☐ The relevance of those listed references which are not in the English language is as follows:

There are no listed references which are not in the English language.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

Date: *May 19, 2006*



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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. CELL-0289/ P0164-USw01	Application No. 10/523,118
		Applicant Stephen Martin Courtney, et al.	
		Filing Date October 4, 2005	Group 1614
		Confirmation No. 8405	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	1	Bashkin, P., et al., "Basic fibroblast growth factor binds to subendothelial extracellular matrix and is released by heparitinase and heparin-like molecules," <i>Biochemistry</i> , 1989 , 28, 1737-1743	
	2	CAS Registry No. 338786-69-9, XP-002259645, 2003, 1 page	
	3	Demir, M., et al., "Anticoagulant and antiprotease profiles of a novel natural heparinomimetic mannopentaose phosphate sulfate (PI-88)," <i>Clin. Appl. Thromb. Hemost.</i> , 2001 , 7(2), 131-140	
	4	Folkman, J., et al., "control of angiogenesis by heparin and other sulfated polysaccharides," <i>Adv. Exp. Med. Biol.</i> , 1992 , 313, 355-364	
	5	Hollenberg, D.H., et al., "Nucleosides. 102. Synthesis of some 3'-deoxy-3'-substituted arabinofuranosylpyrimiding nucleosides," <i>J. Med. Chem.</i> , 1977 , 20(1), 113-116, Accession No. 833809, 1 page	
	6	Kempster, G., et al., "Mehrfach heterocyclisch substituierte thiazole," <i>Z. Chem.</i> , 1970 , 10(12), 460-462 (German, no English abstract available)	
	7	Parish, C.R., et al., "identification of sulfated oligosaccharide-based inhibitors of tumor growth and metastasis using novel <i>in vitro</i> assays for angiogenesis and heparanase activity," <i>Cancer Res.</i> , 1999 , 59, 3433-3441	
	8	Sarodnick, G., et al., "Heterocyclic substituted thiazoles as thiabendazole analogues," <i>Z. Chem.</i> , 1979 , 19(1), 21-22 (German, no English abstract available)	
	9	Tyle, P., "Iontophoretic devices for drug delivery," <i>Pharmaceutical Research</i> , 3(6), 1986 , 318-326	
	10	Vlodavsky, I, et al., "Expression of heparanase by platelets and circulating cells of the immune system: possible involvement in diapedesis and extravasation," <i>Invasion Metastasis</i> , 1992 , 12, 112-127	
	11	Vlodavsky, I., et al., "Inhibition of tumor metastasis by heparanase inhibiting species of heparin," <i>Invasion Metastasis</i> , 1994 , 95, 290-302	
	12	Vlodavsky, I., et al., "Mammalian heparanase: gene cloning, expression and function in tumor progression and metastasis," <i>Nature Medicine</i> , 1999 , 5(7), 793-802	
EXAMINER		DATE CONSIDERED	

Form PTO-1449 Modified

List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)

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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
	13	WO 01/35967 A1	05/25/01	PCT	X abstract	
	14	WO 2004/013132 A1	02/12/04	PCT		
	15	199 55 803	05/23/01	DE	X abstract	
	16	0 218 147	07/03/24	GB		

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